

JIS

JAPANESE INDUSTRIAL STANDARD

Precision surface plates

JIS B 7513—1992

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by

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**In the event of any doubt arising,
the original Standard in Japanese is to be final authority.**

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1. Scope

This Japanese Industrial Standard specifies the rectangular or square precision surface plates (hereafter referred to as surface plates), of which sizes of working surfaces ranging from 160 mm x 100 mm to 2500 mm x 1600 mm.

Remarks 1. The applicable standards to this Standard are given in the following:

JIS G 5501-Grey iron castings

JIS Z 8103-Glossary of terms used in instrumentation

2. The equivalent International Standards to this Standard are the following:

ISO 8512-1-1990 Surface plates - Part 1: Cast iron

ISO 8512-2-1990 Surface plates - Part 2: Granite

2. Definitions

For the purposes of this Standard, the following definitions apply, and others are in accordance with JIS Z 8103.

- (1) precision surface plates The board shaped structures generally made of cast iron or stone, providing precise flat surfaces or datum flat surfaces for multipurposes on their upper surfaces as the working surfaces.
- (2) flatness of working surface The magnitude of the deviation from the working surface of the geometrically true plane. It is expressed by the dimension of the interval where the interval between the two parallel flat planes becomes the minimum, when the working surface has been put between two geometrically true parallel flat planes.

3. Names of respective parts

The names of respective parts of the surface plate to be used in this Standard shall be in accordance with Fig. 1.